TAPAZOL
CHEMICAL WORKS LTD.

# Material Safety Data Sheet

# Mondial

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**Version: 4**
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## 1. IDENTIFICATION OF SUBSTANCE AND COMPANY

**Common name:** Mondial

**Use:** Herbicide

**Formulation Type:** SC

**Manufacturer:** Tapazol Chemical works ltd.

**Address:** HaSolela 1, West ind. Zone, Beit Shemesh, 9905415.

**Tel:** 972-2-992-6040 **Fax:** 972-2-9926050 **e-mail:** info@tapazol.co.il

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS no. | Quantity (g/l) |
|---|---|---|
| Flumetsulam | 98967-40-9 | 100 |
| Florasulam | 145701-23-1 | 75 |
| Propylene Glycol | 57-55-6 | 60-80 |

## 3. HAZARDS IDENTIFICATION

**Environmental hazards:** The product is very toxic to the aquatic life (alga).

The Ai Florasulam is slightly toxic to birds

**Human hazards:** The product is classified as hazardous substance.

## 4. FIRST AID MEASURES

**Eyes:** Flush eyes with large amounts of water while eyelids are open for at least 15 minutes. If irritation develops and persists, get medical attention.
**Skin:** Flush with large amounts of water. Remove grossly contaminated clothing, including shoes, and launder before reuse. If irritation develops and persists, get medical attention.
**Ingestion:** If swallowed, DO NOT induce vomiting. Keep at rest and get prompt medical attention.
**Inhalation:** Immediately remove the affected victim from exposure to an area of fresh air. Administer artificial respiration if breathing has stopped. Keep at rest and call for prompt medical attention.
**Note to physician:** No specific antidote, treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Flash point:** >100$^0$C.
**Flammable properties:** Not flammable.
**Extinguishing media:** Water spray, foam, dry chemical, $CO_2$.
**Protective equipment:** Normal protective gear and self-contained breathing apparatus.
**Hazardous products of combustion may include:** Smoke, toxic and irritating gases.
**More information:** Do not allow run-off from the fire enter drains or water courses.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal protection:** Wear personal protective equipment as prescribed in section 8 – "Exposure controls/Personal protection".

**Environmental Protection:** Prevent the material from entering sewage and water courses.

**Procedure:** Absorb with material such or absorbent material and collect into containers for disposal. Dike area in case of large spills. Report large spills. For spills in public area, keep public away and advise local authorities.

Wash clothes, equipment and work area after cleaning.

## 7. HANDLING AND STORAGE

**Storage:** Store in tightly closed original container in a cool, dry well-ventilated area out of direct sunlight and out from the reach of children. Do not store with food, feedstuffs, fertilizers and seeds.

**Handling:** Wear personal protective equipment as prescribed in section 8 – "Exposure controls/Personal protection".

Do not eat, drink or smoke while handling.

Change clothes and wash thoroughly when finishing working with the product.

Wash working clothes in separate from household laundry and do not re-use clothes that are not washed.

See product label for further handling/storage precautions relative to the end use of this product.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering controls:** Use in a well-ventilated area. If airborne mists or vapors are likely to be generated, use local exhaust ventilation controls.

**Eye/ Face protection:** Chemical goggles with side shields (EN 166).

**Skin/Body protection:** Long working clothes, closed shoes with socks and chemical resistant gloves (EN 374/3).

**Respiratory protection:** Approved Half-face mask (EN-140) with integrated filter ABEK-1 P3 (EN 14387).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** yellow- brown liquid.

**Odor**: None.

**Water solubility:** Forms a suspension.

**Density:** 1.05-1.15 g/ml.

**pH:** 7

**Flash point:** >100$^{0}$C.

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under ordinary conditions of use and storage.

**Conditions to avoid:** Heat, flame, ignition sources, strong acids and bases.

**Hazardous polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:**

**Oral:** LD50 for rat: 5000 mg/kg.

**Dermal:** LD50 for rat: >2000 mg/kg.

**Inhalation:** LC50 for rat: >5.167 mg/l.

**Skin irritation:** Non irritating.

**Eye irritation:** Non irritating..

**Skin sensitization:** Non sensitizing.

**Chronic toxicity:** Flumetsulam and Florasulam are not mutagenic or carcinogenic and does not have developmental and reproduction effects.

## 12. ECOLOGICAL INFORMATION

For the AI Flumetsulam:

**Fish:** LC50 (96h) for silverside minnow: >379 mg/l. Non-toxic to fathead minnow and bluegill sunfish.

**Daphnia:** Non-toxic. **Algae:** EC50 (5d) for green algae: 4.9 µg/l, for blue-green algae: 167 µg/l.

**Birds:** Acute oral LD50 for bobwhite quail: >2250 mg/kg. Dietary LC50 (8d) for bobwhite quail and mallard ducks: >5620 mg/kg.

**Bees:** LC50: >100 µg/bee. NOEL: 36 µg/bee.

**Worms:** LC50 (14d) > 950 mg/kg soil.

For the AI Florasulam:

**Fish:** LC50 (96h) for bluegill sunfish: >98 mg/l, for rainbow trout: >96 mg/l.

**Daphnia:** LC50 (48h): 292 mg/l. **Algae:** EC50 (72h): 8.94 µg/l.

**Birds:** Acute oral LD50 for quail: 1046 mg/kg. Dietary LC50 for quail and mallard ducks: >5000 mg/kg diet.

**Bees:** LD50 (48h, oral and contact): >100 µg/bee.

**Worms:** LC50 for earth worms > 1320 mg/kg soil.

## 13. DISPOSAL CONSIDERATIONS

Dispose of according to local regulations. Avoid entry of product into sewer system or water surfaces.

## 14. TRANSPORT INFORMATION

**Proper Shipping name:** Environmentally hazardous substance, liquid, N.O.S

**UN no.:** 3082

**Class:** 9

**Packaging group:** III

## 15. REGULATORY INFORMATION

**Hazard symbols:**

Acute hazards to the aquatic environment, category 1.

**Hazard statements:**

H410: Very toxic to aquatic life with long lasting effects.

**Precautionary statements:**

P102: Keep out of reach of children

P103: Read label before use

P270: Do not eat, drink or smoke when using this product

## 16. OTHER INFORMATION

**Disclaimer:** The information provided by TAPAZOL CHEMICAL WORKS Ltd. In the above document is given in good faith and to the best of our knowledge. However, no warranty is expressed or implied.